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CENTRAL INTELLIGENCE AGENCY
INFORMATION REPORT

COUNTRY USER

SUBJECT Use of 'MR' Apperatus by Soviet Rifle Companies/
Mechanical Equipment used by Soviet Engineering Troops/Use
of Mechanical Foem as Fire Extinguisher

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- The rifle companies of the rifle regiments of the Soviet ermy are using 'MR' (mikrofon-ra vedchik = scouting microphone) apparatus. This apparatus consists of:
 - a. a khaki-colored microphone box, sine 20 x 10 cm;
 - b. : khaki-colored connecting cable up to 500 m long;
 - c. a receiver-emplifier.
- The receiver-emplifier transmits every noise that occurs in a radius of 50 m. cround the microphone. The MR is used mainly by patrols guarding important approaches by night.
- h. "The engineering troops are provided with the following mechanical equipment for underground work:
 - 2. Pneumatic boring hammer 'MB-13'. By means of MB-13 one can bore holes with a diameter of 35-50 mm, and a depth of up to four meters. Depending on the soil and the type of the bore head, the productivity of work is from 0.7 m. to 4.5 m. per hour. This hammer weighs 16.2 kg. The useful pressure of the compressed air is four etmospheres. The boring is conducted dryly and the hole blown through.
 - b. Electric hand drills 'ER-5'. The effects of their work are the same as those of MB-13, but they are used for soft soil. The tension of the feeding network is 127 volts. The drill has a motor with a capacity of 1.7 kvt and weighs 17.7 kg.

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- c. Procumatic hand picks 'OM-5'. By means of OM-5 one can cut out about half a cubic meter of hard soil in one hour. The length of the pick without the point is 560 mm. The useful pressure is four atmospheres and the pick makes 700-1000 strokes per minute.
- d. Pneumetic hand spades PL-3. By means of Pi-3 one can dig out about one cubic meter of medium-hard soil per hour. The useful pressure is 4 atmospheres.

All of these pneumatic tools are provided with 'silencers': casings made of leather and cotton wool.

- 4. "For geological investigations and for making of ventilation and smoke i desfor underground constructions, the engineering troops have an earth drill 'B-140' which bores holes of a disneter of the mm and a depth of up to be meters. The weight of the SB-140' is 60 tg and is operated by four men. The productivity is two to four meters per hour, depth and on the nature of the soil. The drill is worked by hand.
- 5. "For the liquidation of fires of objects belonging to the Air Force and at depots containing easily inflammable goods and substances, the Soviets no longer use so-called 'foam-gener tors' (penogony i penogheneratory) but 'sutocistern pumps' (avtotalsterny-massay) provided with 'sir-foam tubes' (vo dushnopennye stvoly) for the production of mechanical foam.
- 6. "The principle for the production of mechanical foam is as follows:
 - n. n form producer is introduced into the water distern in the proportion of 95-96 per cent of water and 4-5 per cent of form producer;
 - b, when the water to which the form producer has been added passes through the 'air-l'orm tube', the mixture is there mixed with air and coming on. From the tube, forms a broad jet of form which is thrown as far as 20 meters.
- 7. "The cheepest form producer to be added to water is a mixture of kerosene, respirits and joiner's glue. Added to 1.3 liters of water, this form producer yields 1900 liters of form from the cir-form tube. This form is more stable than chemical form and cover, the burning surface very closely.
- 8. "There are air-form tubes of the following types:

VPSM-3 :- throws out three cubic meters of form per minute; length 360 mm, diameter 60 mm.

VPSM-5 - throws out five cubic meters of from per strate; length 1236 mm, diemeter 65 mm.

The tubes have diffusers inside. The air-form tubes are attached to the ends of the hoses instead of the ordinary spraying tubes."

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